

CLAIMS:

This listing of claims will replace the listing of claims in the application:

1. (currently amended) An extension piece [(2)] for a dental implant [(1)] with a head part [(20)] which serves as a basis for a retention element [(7)], and with a threaded stem [(29)] with which the extension piece [(2)] can be screwed into the dental implant [(1)], wherein the extension piece [(2)] has at least one reference form, in particular a reference surface [(27b, 24)], which defines the circumferential positioning of the extension piece [(2)] and via which the circumferential position of the extension piece can be transferred to a working model [(M)].
2. (currently amended) The extension piece [(2)] as claimed in claim 1, wherein the extension piece [(2)] has a mating shoulder [(25)] via which the extension piece [(2)] can be supported on an implant shoulder [(10)] of an implant, by which means the position of the extension piece in the axial direction can be transferred.
3. (currently amended) The extension piece [(2)] as claimed in claim 1 ~~[[or 2]]~~, wherein the extension piece [(2)] has a first contour [(22)] onto which a transfer aid [(4)] with a complementarily shaped second contour [(45)] can be clamped and/or snapped.
4. (currently amended) The extension piece as claimed in ~~one of claims 1 through 3~~ claim 1, wherein the head part [(20)] is of substantially cylindrical design, and wherein the reference surface [(24)] is formed by a cut surface of a semicircular cylinder [(23)] extending parallel to the screw axis [(A)] of the extension piece [(2)].
5. (currently amended) The extension piece as claimed in ~~one of claims 1 through 4~~ claim 1, wherein the extension piece [(2)] has a non-cylindrical outer contour

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with screw-in surfaces [(21)] via which the extension piece [(2)] can be screwed into an implant [(1)] with a tool [(3)] engaging on them.

6. (currently amended) The extension piece as claimed in claim 4 [or 5], wherein a bevel [(27a)] is provided in the area of the transition from the reference surface [(24)] to the outer surface [(27b)] of the semicircular cylinder [(23)].

7. (currently amended) The extension piece as claimed in ~~one of claims 4 through 7~~ claim 1, wherein the extension piece is made of a metallic, non-oxidizing, high-melting-point alloy, in particular of a composition of 60% Au, 19% Pt, 20% Pd, 1% Ir, the melting range being between 1400° and 1490° Celsius.

8. (currently amended) A transfer aid [(4)] for transferring the position of an implant [(1)] and of an extension piece [(2)], in particular as claimed in ~~one of claims 4 through 7~~ claim 1, to a working model [(M)], with a transfer surface [(42)] which defines the circumferential position of the transfer aid [(4)], the transfer surface [(42)] being shaped to complement a reference form [(27b, 24)] on the extension piece [(2)], wherein the transfer aid [(4)] has a base plate [(40)] in which the transfer surface [(42)] is arranged, the transfer aid [(4)] being able to be secured on the extension piece [(2)] by clamping and/or snap-fit means [(45)], and the base plate [(40)] having a form which can be anchored securely against rotation in an impression [(93)], in particular a non-cylindrical outer contour.

9. (currently amended) The transfer aid as claimed in claim 8, wherein the transfer surface [(42)] is part of a semicylindrical opening [(41)] in the base plate [(40)].

10. (currently amended) The transfer aid as claimed in claim 9, wherein a recess ~~[[46]]~~ is arranged in the transition area between the transfer surface ~~[[42]]~~ and the semicylindrical inner surface ~~[[47]]~~.

11. (currently amended) The transfer aid as claimed in ~~one of claims 8 through 10~~ claim 8, wherein the clamping and/or snap-fit means are formed by a circular lip ~~[[44]]~~ which is arranged on the base plate ~~[[40]]~~ and which has a second contour ~~[[45]]~~ via which the transfer aid ~~[[4]]~~ can be snapped and/or clamped onto a first contour ~~[[22]]~~ of the extension element ~~[[2]]~~.

12. (currently amended) The transfer aid ~~[[4]]~~ as claimed in ~~one of claims 8 through 11~~ claim 8, wherein the transfer aid ~~[[4]]~~ is in one piece, preferably made of a plastic material.

13. (currently amended) The transfer aid ~~[[4]]~~ as claimed in ~~one of claims 8 through 12~~ claim 8, wherein the opening ~~[[41]]~~ extends right through the base plate ~~[[40]]~~.

14. (currently amended) The transfer aid as claimed in ~~one of claims 8 through 13~~ claim 8, wherein the base plate ~~[[40]]~~ is provided with holes ~~[[43]]~~.

15. (currently amended) ~~[[The]]~~ A method comprising use of an extension piece ~~[[2]]~~ which can be machined, in particular ground, for a dental implant ~~[[1]]~~, in particular as claimed in ~~one of claims 1 through 7~~ claim 1, as a transfer part for transferring its own axial and circumferential position, and as a basis for a retention element ~~[[7]]~~.

16. (currently amended) A combination of a transfer aid ~~[[4]]~~ ~~as claimed in one of claims 8 through 14~~ and of an extension piece ~~[[2]]~~ as claimed in claim 8, and

preferably of a dental implant [(1)], where the transfer surface [(42)] on the transfer aid [(4)] is designed complementing the reference surface [(24)] of the extension piece [(2)].

17. (currently amended) A method for taking an impression of the radial and axial position of at least one dental implant [(1)] implanted in a jaw bone [(K)] with an extension piece [(2)] fitted in it to a working model [(M)] and/or for producing a basis for a retention element [(7)], said method comprising the following steps:

a) screwing the at least one extension piece [(2)] with a reference surface [(24)] as a basis for a retention element [(7)] into the implant or implants [(1)] with a predetermined first torque,

b) producing an impression [(93)] of the situation of the implant [(1)] and of the extension piece [(2)] in the patient's mouth by applying an impression compound [(90)], the extension piece [(2)] leaving an impression in the impression compound and remaining connected to the implant [(1)] after removal of the impression compound [(90)] from the mouth,

c) removing the extension piece [(2)] from the implant,

d) repositioning the extension piece [(2)] in the correct position in the impression [(93)],

e) before or after step d), screwing the extension piece or extension pieces [(2)] repositioned in the impression [(93)] into a manipulation implant [(5)] with a second torque,

f) producing a working model [(M)] by casting the manipulation implant or implants [(5)] into a modeling compound [(M4)].

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18. (currently amended) The method as claimed in claim 17, wherein a transfer aid $[(4)]$ is applied to the extension piece $[(2)]$, in particular by clamping and/or screwing, before the removal of the impression $[(93)]$ of the extension piece $[(2)]$, and wherein the transfer aid $[(4)]$ remains in the impression compound $[(90)]$ when the impression $[(93)]$ is produced.

19. (currently amended) The method as claimed in claim 17 [or 18], wherein the first predetermined torque is greater than the second torque, wherein in particular the first torque is approximately 35 Ncm, and wherein the second torque approximately corresponds to a manual screwing of the extension piece $[(2)]$ onto the manipulation implant $[(5)]$.

20. (currently amended) The method as claimed in ~~one of claims 17 through 20~~ claim 17, wherein, in step a), the extension piece $[(2)]$ is turned twice in succession into the implant $[(1)]$.

21. (currently amended) The method as claimed in ~~one of claims 17 through 20~~ claim 17, wherein the extension piece $[(2)]$ is machined, in particular ground, after the impression has been taken.

22. (currently amended) The method as claimed in claim 21, wherein a position marking $[(L)]$ is arranged on the extension piece $[(2)]$ before the machining, and wherein the extension piece $[(2)]$, for machining, is removed from the working model $[(M)]$ and in particular fitted onto a holder $[(6)]$ and machined on the latter.

23. (currently amended) The method as claimed in ~~one of claims 17 through 22~~ claim 17, wherein a retention element $[(7)]$ for mounting a detachable tooth

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replacement is applied to the machined extension piece [(2)] on a plateau surface [(28)].

24. (currently amended) The method as claimed in claim 23, wherein the machined extension piece [(2)] is screwed into the implant [(1)] with the first predetermined torque.

25. (currently amended) The method as claimed in claim 23 [or 24], wherein, upon definitive screwing of the machined extension piece [(2)] into the implant [(1)], a spreading cone [(8)] is inserted between an inner cone [(12)] of the implant [(1)] and the extension piece [(2)].

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